

\$ \* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 08:35:31 ON 05 JAN 2006

=> FIL HOME

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.06	0.27

FILE 'HOME' ENTERED AT 08:35:43 ON 05 JAN 2006

=> fil .bec

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	0.69

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIODBASE, BIOTECHNO, WPIDS' ENTERED AT 08:36:39 ON 05 JAN 2006  
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s gst or glutathione s transferase#

FILE 'MEDLINE'  
9329 GST  
68231 GLUTATHIONE  
5076724 S  
56599 TRANSFERASE#  
14363 GLUTATHIONE S TRANSFERASE#  
(GLUTATHIONE(W) S(W) TRANSFERASE#)  
L1 17524 GST OR GLUTATHIONE S TRANSFERASE#

FILE 'SCISEARCH'  
9356 GST  
63820 GLUTATHIONE  
1709582 S  
44600 TRANSFERASE#  
17128 GLUTATHIONE S TRANSFERASE#  
(GLUTATHIONE(W) S(W) TRANSFERASE#)  
L2 20256 GST OR GLUTATHIONE S TRANSFERASE#

FILE 'LIFESCI'  
3833 GST  
16273 "GLUTATHIONE"  
351703 "S"  
14169 TRANSFERASE#  
5931 GLUTATHIONE S TRANSFERASE#  
("GLUTATHIONE" (W) "S" (W) TRANSFERASE#)  
L3 7255 GST OR GLUTATHIONE S TRANSFERASE#

FILE 'BIOTECHDS'  
736 GST  
2531 GLUTATHIONE  
52476 S  
3789 TRANSFERASE#  
762 GLUTATHIONE S TRANSFERASE#  
(GLUTATHIONE(W) S(W) TRANSFERASE#)  
L4 1115 GST OR GLUTATHIONE S TRANSFERASE#

FILE 'BIOSIS'  
11555 GST  
75290 GLUTATHIONE  
1355100 S  
76487 TRANSFERASE#

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19495 GLUTATHIONE S TRANSFERASE#
      (GLUTATHIONE(W) S(W) TRANSFERASE#)
L5    23596 GST OR GLUTATHIONE S TRANSFERASE#

FILE 'EMBASE'
      8492 GST
      59183 "GLUTATHIONE"
      1291497 "S"
      40613 TRANSFERASE#
      13136 GLUTATHIONE S TRANSFERASE#
      ("GLUTATHIONE" (W) "S" (W) TRANSFERASE#)
L6    15936 GST OR GLUTATHIONE S TRANSFERASE#

FILE 'HCAPLUS'
      12105 GST
      84807 GLUTATHIONE
      2762707 S
      52460 TRANSFERASE#
      20327 GLUTATHIONE S TRANSFERASE#
      (GLUTATHIONE(W) S(W) TRANSFERASE#)
L7    24191 GST OR GLUTATHIONE S TRANSFERASE#

FILE 'NTIS'
      65 GST
      494 GLUTATHIONE
      439868 S
      1324 TRANSFERASE#
      58 GLUTATHIONE S TRANSFERASE#
      (GLUTATHIONE(W) S(W) TRANSFERASE#)
L8    105 GST OR GLUTATHIONE S TRANSFERASE#

FILE 'ESBIOBASE'
      6603 GST
      27416 GLUTATHIONE
      450062 S
      34583 TRANSFERASE#
      9191 GLUTATHIONE S TRANSFERASE#
      (GLUTATHIONE(W) S(W) TRANSFERASE#)
L9    11430 GST OR GLUTATHIONE S TRANSFERASE#

FILE 'BIOTECHNO'
      4283 GST
      16276 GLUTATHIONE
      236253 S
      16723 TRANSFERASE#
      6443 GLUTATHIONE S TRANSFERASE#
      (GLUTATHIONE(W) S(W) TRANSFERASE#)
L10   7999 GST OR GLUTATHIONE S TRANSFERASE#

FILE 'WPIDS'
      674 GST
      3502 GLUTATHIONE
      4473332 S
      5589 TRANSFERASE#
      807 GLUTATHIONE S TRANSFERASE#
      (GLUTATHIONE(W) S(W) TRANSFERASE#)
L11   1145 GST OR GLUTATHIONE S TRANSFERASE#

TOTAL FOR ALL FILES
L12   130552 GST OR GLUTATHIONE S TRANSFERASE#

=> s l12 and (engineer? or shuffl?)
FILE 'MEDLINE'
      63255 ENGINEER?

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1540 SHUFFL?
L13      143 L1 AND (ENGINEER? OR SHUFFL?)

FILE 'SCISEARCH'
134480 ENGINEER?
2841 SHUFFL?
L14      148 L2 AND (ENGINEER? OR SHUFFL?)

FILE 'LIFESCI'
21000 ENGINEER?
839 SHUFFL?
L15      74 L3 AND (ENGINEER? OR SHUFFL?)

FILE 'BIOTECHDS'
28194 ENGINEER?
495 SHUFFL?
L16      118 L4 AND (ENGINEER? OR SHUFFL?)

FILE 'BIOSIS'
168957 ENGINEER?
1647 SHUFFL?
L17      409 L5 AND (ENGINEER? OR SHUFFL?)

FILE 'EMBASE'
84959 ENGINEER?
1316 SHUFFL?
L18      143 L6 AND (ENGINEER? OR SHUFFL?)

FILE 'HCAPLUS'
156863 ENGINEER?
2641 SHUFFL?
L19      379 L7 AND (ENGINEER? OR SHUFFL?)

FILE 'NTIS'
184398 ENGINEER?
274 SHUFFL?
L20      6 L8 AND (ENGINEER? OR SHUFFL?)

FILE 'ESBIOBASE'
52083 ENGINEER?
987 SHUFFL?
L21      661 L9 AND (ENGINEER? OR SHUFFL?)

FILE 'BIOTECHNO'
62582 ENGINEER?
812 SHUFFL?
L22      121 L10 AND (ENGINEER? OR SHUFFL?)

FILE 'WPIDS'
176351 ENGINEER?
1303 SHUFFL?
L23      48 L11 AND (ENGINEER? OR SHUFFL?)

TOTAL FOR ALL FILES
L24      2250 L12 AND (ENGINEER? OR SHUFFL?)

=> s l24 and herbicide#
FILE 'MEDLINE'
10536 HERBICIDE#
L25      2 L13 AND HERBICIDE#

FILE 'SCISEARCH'
25417 HERBICIDE#
L26      10 L14 AND HERBICIDE#

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FILE 'LIFESCI'
    6331 HERBICIDE#
L27      0 L15 AND HERBICIDE#

FILE 'BIOTECHDS'
    5784 HERBICIDE#
L28      7 L16 AND HERBICIDE#

FILE 'BIOSIS'
    49787 HERBICIDE#
L29      6 L17 AND HERBICIDE#

FILE 'EMBASE'
    9807 HERBICIDE#
L30      3 L18 AND HERBICIDE#

FILE 'HCAPLUS'
    83047 HERBICIDE#
L31      28 L19 AND HERBICIDE#

FILE 'NTIS'
    3765 HERBICIDE#
L32      0 L20 AND HERBICIDE#

FILE 'ESBIOBASE'
    8422 HERBICIDE#
L33      10 L21 AND HERBICIDE#

FILE 'BIOTECHNO'
    3463 HERBICIDE#
L34      1 L22 AND HERBICIDE#

FILE 'WPIDS'
    31262 HERBICIDE#
L35      3 L23 AND HERBICIDE#

TOTAL FOR ALL FILES
L36      70 L24 AND HERBICIDE#

=> s l36 not 2001-2005/py
FILE 'MEDLINE'
    2821767 2001-2005/PY
L37      0 L25 NOT 2001-2005/PY

FILE 'SCISEARCH'
    5297496 2001-2005/PY
           (20010000-20059999/PY)
L38      0 L26 NOT 2001-2005/PY

FILE 'LIFESCI'
    513673 2001-2005/PY
L39      0 L27 NOT 2001-2005/PY

FILE 'BIOTECHDS'
    118977 2001-2005/PY
L40      1 L28 NOT 2001-2005/PY

FILE 'BIOSIS'
    2618573 2001-2005/PY
L41      3 L29 NOT 2001-2005/PY

FILE 'EMBASE'
    2432092 2001-2005/PY

```

L42 1 L30 NOT 2001-2005/PY

FILE 'HCAPLUS'

5322712 2001-2005/PY

L43 0 L31 NOT 2001-2005/PY

FILE 'NTIS'

79625 2001-2005/PY

L44 0 L32 NOT 2001-2005/PY

FILE 'ESBIOBASE'

1484795 2001-2005/PY

L45 2 L33 NOT 2001-2005/PY

FILE 'BIOTECHNO'

368875 2001-2005/PY

L46 1 L34 NOT 2001-2005/PY

FILE 'WPIDS'

4680242 2001-2005/PY

L47 0 L35 NOT 2001-2005/PY

TOTAL FOR ALL FILES

L48 8 L36 NOT 2001-2005/PY

=> dup rem l48

PROCESSING COMPLETED FOR L48

L49 7 DUP REM L48 (1 DUPLICATE REMOVED)

=> d tot

L49 ANSWER 1 OF 7 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STM  
TI Plant-derived enzyme and DNA sequences and uses thereof.  
SO Official Gazette of the United States Patent and Trademark Office Patents,  
(May 23, 2000) Vol. 1234, No. 4. e-file.  
CODEN: OGUPE7. ISSN: 0098-1133.  
AU Bridges, Ian George [Inventor, Reprint author]; Bright, Simon William  
Jonathan [Inventor]; Greenland, Andrew James [Inventor]; Holt, David  
Charles [Inventor]; Jepson, Ian [Inventor]; Schuch, Wolfgang Walter  
[Inventor]  
AN 2001:1330 BIOSIS

L49 ANSWER 2 OF 7 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on  
STM  
AN 1999198043 ESBIOBASE  
TI Characterization of recombinant corn **glutathione S-  
transferase** isoforms I, II, III, and IV  
AU Sommer A.; Boger P.  
CS A. Sommer, Lehrstuhl fur Physiologie, Biochemie der Pflanzen, Universitat  
Konstanz, D-78457 Konstanz, Germany.  
SO Pesticide Biochemistry and Physiology, (1999), 63/3 (127-138), 41  
reference(s)  
CODEN: PCBPBS ISSN: 0048-3575  
DT Journal; Article  
CY United States  
LA English  
SL English

L49 ANSWER 3 OF 7 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights  
reserved on STM DUPLICATE 1  
TI Bacterial **glutathione S-transferases**: What  
are they good for?  
SO Journal of Bacteriology, (1997) Vol. 179, No. 5, pp. 1431-1441.  
Refs: 94

ISSN: 0021-9193 CODEN: JOBAAY

AU Vuilleumier S.  
AN 97071227 EMBASE

L49 ANSWER 4 OF 7 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on  
STN  
AN 1997147773 ESBIOBASE  
TI Soluble overexpression in Escherichia coli, and purification and  
characterization of wild-type recombinant tobacco acetolactate synthase  
AU Chang S.-I.; Kang M.-K.; Choi J.-D.; Namgoong S.K.  
CS S.-I. Chang, Department of Biochemistry, Chungbuk National University,  
Cheongju 361-763, South Korea.  
E-mail: sichang@cbucc.chungbuk.ac.kr  
SO Biochemical and Biophysical Research Communications, (1997), 234/3  
(549-553), 35 reference(s)  
CODEN: BBRCA0 ISSN: 0006-291X  
DT Journal; Article  
CY United States  
LA English  
SL English

L49 ANSWER 5 OF 7 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
TI GENETICALLY **ENGINEERED** PLANTS FOR **HERBICIDE**  
RESISTANCE.  
SO Biotechnol. Agric. Ser., (1992) pp. 75-107. GATEHOUSE, A. M. R., V. A.  
HILDER AND D. BOULTER (ED.). BIOTECHNOLOGY IN AGRICULTURE, NO. 7. PLANT  
GENETIC MANIPULATION FOR CROP PROTECTION. XIII+266P. C.A.B. INTERNATIONAL:  
WALLINGFORD, ENGLAND, UK; TUCSON, ARIZONA, USA. ILLUS.  
Publisher: Series: Biotechnology in Agriculture Series.  
CODEN: BIAGEN. ISSN: 0960-202X. ISBN: 0-85198-707-9.  
AU MULLINEAUX P M [Reprint author]  
AN 1992:419952 BIOSIS

L49 ANSWER 6 OF 7 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
TI TOTAL CHEMICAL SYNTHESIS AND EXPRESSION IN ESCHERICHIA-COLI OF A MAIZE  
GLUTATHIONE TRANSFERASE **GST** GENE.  
SO Gene (Amsterdam), (1989) Vol. 76, No. 1, pp. 153-160.  
CODEN: GENED6. ISSN: 0378-1119.  
AU WOSNICK M A [Reprint author]; BARNETT R W; CARLSON J E  
AN 1989:268026 BIOSIS

L49 ANSWER 7 OF 7 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
TI Structural analysis of a maize gene coding for **glutathione-**  
**S-transferase** involved in **herbicide**  
detoxification;  
cloning and DNA sequence  
SO Plant Mol.Biol.; (1986) 6, 4, 203-11  
CODEN: PMBIDB  
AU Shah D M; Hironaka C M; Wiegand R C; Harding E I; Krivi G G; Tiemeier C  
AN 1986-05927 BIOTECHDS

=> d bib

L49 ANSWER 1 OF 7 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
AN 2001:1330 BIOSIS  
DN PREV200100001330  
TI Plant-derived enzyme and DNA sequences and uses thereof.  
AU Bridges, Ian George [Inventor, Reprint author]; Bright, Simon William  
Jonathan [Inventor]; Greenland, Andrew James [Inventor]; Holt, David  
Charles [Inventor]; Jepson, Ian [Inventor]; Schuch, Wolfgang Walter  
[Inventor]  
CS Silchester, UK  
ASSIGNEE: Zeneca Limited, London, UK

PI US 6066456 20000523  
SO Official Gazette of the United States Patent and Trademark Office Patents,  
(May 23, 2000) Vol. 1234, No. 4. e-file.  
CODEN: OGUPE7. ISSN: 0098-1133.  
DT Patent  
LA English  
ED Entered STN: 21 Dec 2000  
Last Updated on STN: 21 Dec 2000

=> d ab

L49 ANSWER 1 OF 7 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
AB The chemically-inducible 27 kD subunit of the enzyme **glutathione**  
**-S-transferase**, isoform II (**GST-II-27**) and  
sequences encoding it are provided. In particular, a genomic DNA sequence  
encoding the gene promoter for the **GST-II-27** subunit is  
provided. Then linked to an exogenous gene and introduced into a plant by  
transformation, and **GST-II-27** promoter provides a means for the  
external regulation of expression of that exogenous gene. Transformation  
with DNA encoding **glutathione-S-transferase**  
polypeptides produces **herbicide** resistance transgenic plants.

=> s l24 and plant#

FILE 'MEDLINE'

257764 PLANT#

L50 6 L13 AND PLANT#

FILE 'SCISEARCH'

421577 PLANT#

L51 13 L14 AND PLANT#

FILE 'LIFESCI'

173354 PLANT#

L52 2 L15 AND PLANT#

FILE 'BIOTECHDS'

60825 PLANT#

L53 24 L16 AND PLANT#

FILE 'BIOSIS'

2395385 PLANT#

L54 61 L17 AND PLANT#

FILE 'EMBASE'

190108 PLANT#

L55 3 L18 AND PLANT#

FILE 'HCAPLUS'

953985 PLANT#

L56 57 L19 AND PLANT#

FILE 'NTIS'

146817 PLANT#

L57 0 L20 AND PLANT#

FILE 'ESBIOBASE'

342407 PLANT#

L58 38 L21 AND PLANT#

FILE 'BIOTECHNO'

98706 PLANT#

L59 4 L22 AND PLANT#

```

FILE 'WPIDS'
      268427 PLANT#
L60      18 L23 AND PLANT#

TOTAL FOR ALL FILES
L61      226 L24 AND PLANT#

=> s l61 not 2001-2005/py
FILE 'MEDLINE'
      2821767 2001-2005/PY
L62      1 L50 NOT 2001-2005/PY

FILE 'SCISEARCH'
      5297496 2001-2005/PY
              (20010000-20059999/PY)
L63      2 L51 NOT 2001-2005/PY

FILE 'LIFESCI'
      513673 2001-2005/PY
L64      0 L52 NOT 2001-2005/PY

FILE 'BIOTECHDS'
      118977 2001-2005/PY
L65      3 L53 NOT 2001-2005/PY

FILE 'BIOSIS'
      2618573 2001-2005/PY
L66      34 L54 NOT 2001-2005/PY

FILE 'EMBASE'
      2432092 2001-2005/PY
L67      1 L55 NOT 2001-2005/PY

FILE 'HCAPLUS'
      5322712 2001-2005/PY
L68      12 L56 NOT 2001-2005/PY

FILE 'NTIS'
      79625 2001-2005/PY
L69      0 L57 NOT 2001-2005/PY

FILE 'ESBIOBASE'
      1484795 2001-2005/PY
L70      20 L58 NOT 2001-2005/PY

FILE 'BIOTECHNO'
      368875 2001-2005/PY
L71      3 L59 NOT 2001-2005/PY

FILE 'WPIDS'
      4680242 2001-2005/PY
L72      0 L60 NOT 2001-2005/PY

TOTAL FOR ALL FILES
L73      76 L61 NOT 2001-2005/PY

=> dup rem l73
PROCESSING COMPLETED FOR L73
L74      61 DUP REM L73 (15 DUPLICATES REMOVED)

=> d tot

L74 ANSWER 1 OF 61 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

```



TI **Plant**-derived enzyme and DNA sequences and uses thereof.  
 SO Official Gazette of the United States Patent and Trademark Office Patents,  
 (May 23, 2000) Vol. 1234, No. 4. e-file.  
 CODEN: OGUPE7. ISSN: 0098-1133.  
 AU Bridges, Ian George [Inventor, Reprint author]; Bright, Simon William  
 Jonathan [Inventor]; Greenland, Andrew James [Inventor]; Holt, David  
 Charles [Inventor]; Jepson, Ian [Inventor]; Schuch, Wolfgang Walter  
 [Inventor]  
 AN 2001:1330 BIOSIS

L74 ANSWER 2 OF 61 HCAPLUS COPYRIGHT 2006 ACS on STN  
 TI Use of **glutathione-S-transferase** gene to  
 increase stress tolerance in transgenic **plants**  
 SO PCT Int. Appl., 27 pp.  
 CODEN: PIXXD2  
 IN Drost, Dirk Cooper; Buren, Lawrence Lamont; Jepson, Ian; Daly, Allan  
 AN 2000:628287 HCAPLUS  
 DN 133:220355

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000052182	A1	20000908	WO 2000-GB750	20000302
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			

L74 ANSWER 3 OF 61 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
 TI Regulation of the yeast transcriptional factor PHO2 activity by  
 phosphorylation.  
 SO Journal of Biological Chemistry, (October 13, 2000) Vol. 275, No. 41, pp.  
 31972-31978. print.  
 CODEN: JBCHA3. ISSN: 0021-9258.  
 AU Liu, Cheng; Yang, Zhiyong; Yang, Jun; Xia, Zanzian; Ao, Shizhou [Reprint  
 author]  
 AN 2000:531968 BIOSIS

L74 ANSWER 4 OF 61 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
 TI Construction and characterization of an Escherichia coli strain  
 genetically **engineered** for Ni(II) bioaccumulation.  
 SO Applied and Environmental Microbiology, (December 2000) Vol. 66, No. 12,  
 pp. 5383-5386. print.  
 ISSN: 0099-2240 (ISSN print).  
 AU Krishnaswamy, Rahul; Wilson, David B. [Reprint Author]  
 AN 2003:572957 BIOSIS

L74 ANSWER 5 OF 61 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
 TI A short review on the role of glutathione in the response of yeasts to  
 nutritional, environmental, and oxidative stresses.  
 SO Enzyme and Microbial Technology, (June, 2000) Vol. 26, No. 9-10, pp.  
 737-742. print.  
 CODEN: EMTED2. ISSN: 0141-0229.  
 AU Penninckx, Michel [Reprint author]  
 AN 2000:388553 BIOSIS

L74 ANSWER 6 OF 61 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
 TI Cloning of a palmitoyl-acyl carrier protein thioesterase from oil palm.  
 SO Biochemical Society Transactions, (December, 2000) Vol. 28, No. 6, pp.  
 619-622. print.  
 CODEN: BCSTB5. ISSN: 0300-5127.

AU Othman, A. [Reprint author]; Lazarus, C.; Fraser, T.; Stobart, K.  
AN 2001:186327 BIOSIS

L74 ANSWER 7 OF 61 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN  
AN 2000101551 ESBIOBASE  
TI A high-affinity calmodulin-binding site in a tobacco plasma-membrane channel protein coincides with a characteristic element of cyclic nucleotide-binding domains  
AU Arazi T.; Kaplan B.; Fromm H.  
CS H. Fromm, Centre for Plant Sciences, Leeds Inst. for Biotechnol./Agric., University of Leeds, Leeds LS2 9JT, United Kingdom.  
SO Plant Molecular Biology, (2000), 42/4 (591-601), 40 reference(s)  
CODEN: PMBIDB ISSN: 0167-4412  
DT Journal; Article  
CY Netherlands  
LA English  
SL English

L74 ANSWER 8 OF 61 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
TI A transformation vector for the production of marker-free transgenic **plants** containing a single copy transgene at high frequency.  
SO Plant Journal, (June, 2000) Vol. 22, No. 5, pp. 461-469. print.  
ISSN: 0960-7412.  
AU Sugita, Koichi; Kasahara, Takehide; Matsunaga, Etsuko; Ebinuma, Hiroyasu [Reprint author]  
AN 2000:314366 BIOSIS

L74 ANSWER 9 OF 61 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
TI Functional cloning and mutational analysis of the human cDNA for phosphoacetylglucosamine mutase: Identification of the amino acid residues essential for the catalysis.  
SO Biochimica et Biophysica Acta, (24 July, 2000) Vol. 1492, No. 2-3, pp. 369-376. print.  
CODEN: BBACAQ. ISSN: 0006-3002.  
AU Mio, Toshiyuki; Yamada-Okabe, Toshiko; Arisawa, Mikio; Yamada-Okabe, Hisafumi [Reprint author]  
AN 2000:398390 BIOSIS

L74 ANSWER 10 OF 61 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN  
AN 2000053659 ESBIOBASE  
TI Cloning and characterization of glyoxalase I from soybean  
AU Skipsey M.; Andrews C.J.; Townson J.K.; Jepson I.; Edwards R.  
CS R. Edwards, Department of Biological Sciences, University of Durham, Durham DH1 3LE, United Kingdom.  
E-mail: robert.edwards@durham.ac.uk  
SO Archives of Biochemistry and Biophysics, (15 FEB 2000), 374/2 (261-268), 33 reference(s)  
CODEN: ABBIA4 ISSN: 0003-9861  
DT Journal; Article  
CY United States  
LA English  
SL English

L74 ANSWER 11 OF 61 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
TI Genetic approaches to identify the function of DRG1p in *Saccharomyces cerevisiae*.  
SO Molecular Biology of the Cell, (Dec., 2000) Vol. 11, No. Supplement, pp. 223a. print.  
Meeting Info.: 40th American Society for Cell Biology Annual Meeting. San Francisco, CA, USA. December 09-13, 2000. American Society for Cell Biology.

CODEN: MBCEEV. ISSN: 1059-1524.

AU Sigl, Eva Maria [Reprint author]; Zakalskiy, Andriy; Zisser, Gertrude;  
Wendler, Franz; Bergler, Helmut; Steven, A.; Hoegenauer, Gregor

AN 2002:175382 BIOSIS

L74 ANSWER 12 OF 61 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on  
STN DUPLICATE 1

TI Expression patterns of diverse genes in response to gamma irradiation in  
Nicotiana tabacum.

SO Journal of Plant Biology, (June, 2000) Vol. 43, No. 2, pp. 82-87. print.  
ISSN: 1226-9239.

AU Cho, Hye Sun; Lee, Haeng Soon; Pai, Hyun-sook [Reprint author]

AN 2000:383768 BIOSIS

L74 ANSWER 13 OF 61 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on  
STN

TI Functional domain analysis of the yeast ABC transporter Ycflp by  
site-directed mutagenesis.

SO Journal of Biological Chemistry, (Aug. 13, 1999) Vol. 274, No. 33, pp.  
23584-23590. print.  
CODEN: JBCHA3. ISSN: 0021-9258.

AU Falcon-Perez, Juan M.; Mazon, Maria J.; Molano, Jesus; Eraso, Pilar  
[Reprint author]

AN 1999:468037 BIOSIS

L74 ANSWER 14 OF 61 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V.  
on STN

AN 1999154929 ESBIOBASE

TI Molecular cloning and characterization of MT-ACT48, a novel mitochondrial  
acyl-CoA thioesterase

AU Poupon V.; Begue B.; Gagnon J.; Dautry-Varsat A.; Cerf-Bensussan N.;  
Benmerah A.

CS A. Benmerah, CJF 97-10 INSERM, Faculte Necker-Enfants Malades, 156 rue de  
Vaugirard, 75756 Paris Cedex 15, France.  
E-mail: benmerah@necker.fr

SO Journal of Biological Chemistry, (02 JUL 1999), 274/27 (19188-19194), 34  
reference(s)  
CODEN: JBCHA3 ISSN: 0021-9258

DT Journal; Article

CY United States

LA English

SL English

L74 ANSWER 15 OF 61 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on  
STN

TI Dbp5, a DEAD-box protein required for mRNA export, is recruited to the  
cytoplasmic fibrils of nuclear pore complex via a conserved interaction  
with CAN/Nup159p.

SO EMBO (European Molecular Biology Organization) Journal, (Aug. 2, 1999)  
Vol. 18, No. 15, pp. 4332-4347. print.  
CODEN: EMJODG. ISSN: 0261-4189.

AU Schmitt, Christel; von Kobbe, Cayetano; Bachi, Angela; Pante, Nelly;  
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PI	WO 9814604	A1	19980409	WO 1997-US18024	19971002
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,				
	DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ,				
	LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL,				
	PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US,				
	UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR,				
	GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,				
	GN, ML, MR, NE, SN, TD, TG				
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Bohrergasse 9, A-1030 Vienna, Austria.  
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CY United States  
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Botanik, Justus-Liebig-Universität, Senckenbergstrasse 17, D-35 390  
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E-mail: Christian.Zoerb@bot1.bio.uni-giessen.de  
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CY United States  
LA English  
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CODEN: PIXXD2

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RW:	GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN,			

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L74 ANSWER 30 OF 61 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
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 CODEN: FEBLAL ISSN: 0014-5793  
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 CY Netherlands  
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L74 ANSWER 59 OF 61 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
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L74 ANSWER 60 OF 61 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
 TI TOTAL CHEMICAL SYNTHESIS AND EXPRESSION IN ESCHERICHIA-COLI OF A MAIZE GLUTATHIONE TRANSFERASE **GST** GENE.  
 SO Gene (Amsterdam), (1989) Vol. 76, No. 1, pp. 153-160. CODEN: GENED6. ISSN: 0378-1119.  
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L74 ANSWER 61 OF 61 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
 TI Structural analysis of a maize gene coding for **glutathione-S-transferase** involved in herbicide detoxification; cloning and DNA sequence  
 SO Plant Mol.Biol.; (1986) 6, 4, 203-11 CODEN: PMBIDB  
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 AN 1986-05927 BIOTECHDS

=> d ab 2

L74 ANSWER 2 OF 61 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AB The present invention relates to the use of **glutathione-S-transferase (GST)** gene to uncrease stress tolerance in **plants**, particularly crop **plants**. The invention provides a method of preparing a **plant** which is tolerant to stress comprising incorporation a DNA encoding the **GST-II-27** kD subunit into the **plant** or **plant** progenitor material such that a **GST** enzyme is produced. Preferred types of

**plants** for use in the method of the invention are maize and rice.

```
=> s l12 and herbicide#
FILE 'MEDLINE'
      10536 HERBICIDE#
L75      114 L1 AND HERBICIDE#

FILE 'SCISEARCH'
      25417 HERBICIDE#
L76      278 L2 AND HERBICIDE#

FILE 'LIFESCI'
      6331 HERBICIDE#
L77      76 L3 AND HERBICIDE#

FILE 'BIOTECHDS'
      5784 HERBICIDE#
L78      53 L4 AND HERBICIDE#

FILE 'BIOSIS'
      49787 HERBICIDE#
L79      350 L5 AND HERBICIDE#

FILE 'EMBASE'
      9807 HERBICIDE#
L80      78 L6 AND HERBICIDE#

FILE 'HCAPLUS'
      83047 HERBICIDE#
L81      401 L7 AND HERBICIDE#

FILE 'NTIS'
      3765 HERBICIDE#
L82      0 L8 AND HERBICIDE#

FILE 'ESBIOBASE'
      8422 HERBICIDE#
L83      135 L9 AND HERBICIDE#

FILE 'BIOTECHNO'
      3463 HERBICIDE#
L84      72 L10 AND HERBICIDE#

FILE 'WPIDS'
      31262 HERBICIDE#
L85      44 L11 AND HERBICIDE#

TOTAL FOR ALL FILES
L86      1601 L12 AND HERBICIDE#
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FILE 'MEDLINE'
      501919 MUTA?
      397700 MODIF?
      109683 VARIANT#
L87      13 L75 AND (MUTA? OR MODIF? OR VARIANT#)

FILE 'SCISEARCH'
      486638 MUTA?
      535945 MODIF?
      121138 VARIANT#
L88      29 L76 AND (MUTA? OR MODIF? OR VARIANT#)
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FILE 'LIFESCI'  
221645 MUTA?  
99683 MODIF?  
37047 VARIANT#  
L89 5 L77 AND (MUTA? OR MODIF? OR VARIANT#)

FILE 'BIOTECHDS'  
44446 MUTA?  
36930 MODIF?  
15073 VARIANT#  
L90 19 L78 AND (MUTA? OR MODIF? OR VARIANT#)

FILE 'BIOSIS'  
545848 MUTA?  
391569 MODIF?  
112196 VARIANT#  
L91 21 L79 AND (MUTA? OR MODIF? OR VARIANT#)

FILE 'EMBASE'  
418280 MUTA?  
354824 MODIF?  
95432 VARIANT#  
L92 8 L80 AND (MUTA? OR MODIF? OR VARIANT#)

FILE 'HCAPLUS'  
512075 MUTA?  
951973 MODIF?  
108568 VARIANT#  
L93 40 L81 AND (MUTA? OR MODIF? OR VARIANT#)

FILE 'NTIS'  
10034 MUTA?  
97647 MODIF?  
4627 VARIANT#  
L94 0 L82 AND (MUTA? OR MODIF? OR VARIANT#)

FILE 'ESBIOBASE'  
255340 MUTA?  
157404 MODIF?  
45439 VARIANT#  
L95 15 L83 AND (MUTA? OR MODIF? OR VARIANT#)

FILE 'BIOTECHNO'  
242571 MUTA?  
86734 MODIF?  
41198 VARIANT#  
L96 5 L84 AND (MUTA? OR MODIF? OR VARIANT#)

FILE 'WPIDS'  
28385 MUTA?  
281681 MODIF?  
26959 VARIANT#  
L97 25 L85 AND (MUTA? OR MODIF? OR VARIANT#)

TOTAL FOR ALL FILES  
L98 180 L86 AND (MUTA? OR MODIF? OR VARIANT#)

=> s 198 not 2001-2005/py  
FILE 'MEDLINE'  
2821767 2001-2005/PY  
L99 5 L87 NOT 2001-2005/PY

FILE 'SCISEARCH'  
5297496 2001-2005/PY

(20010000-20059999/PY)  
L100 14 L88 NOT 2001-2005/PY

FILE 'LIFESCI'  
513673 2001-2005/PY  
L101 2 L89 NOT 2001-2005/PY

FILE 'BIOTECHDS'  
118977 2001-2005/PY  
L102 6 L90 NOT 2001-2005/PY

FILE 'BIOSIS'  
2618573 2001-2005/PY  
L103 12 L91 NOT 2001-2005/PY

FILE 'EMBASE'  
2432092 2001-2005/PY  
L104 5 L92 NOT 2001-2005/PY

FILE 'HCAPLUS'  
5322712 2001-2005/PY  
L105 19 L93 NOT 2001-2005/PY

FILE 'NTIS'  
79625 2001-2005/PY  
L106 0 L94 NOT 2001-2005/PY

FILE 'ESBIOBASE'  
1484795 2001-2005/PY  
L107 5 L95 NOT 2001-2005/PY

FILE 'BIOTECHNO'  
368875 2001-2005/PY  
L108 4 L96 NOT 2001-2005/PY

FILE 'WPIDS'  
4680242 2001-2005/PY  
L109 3 L97 NOT 2001-2005/PY

TOTAL FOR ALL FILES  
L110 75 L98 NOT 2001-2005/PY

=> dup rem l110  
PROCESSING COMPLETED FOR L110  
L111 38 DUP REM L110 (37 DUPLICATES REMOVED)

=> d 1-10

L111 ANSWER 1 OF 38 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
TI New **glutathione-S-transferase** enzymes and  
isolated nucleic acid fragments encoding them, useful for detoxifying  
xenobiotic compounds in plants and seeds, as well as in producing  
transgenic plants that are **herbicide** resistant;  
transgenic plant construction with **herbicide** resistance  
AU McGonigle B; O'Keefe D P  
AN 2000-10380 BIOTECHDS  
PI US 6063570 16 May 2000

L111 ANSWER 2 OF 38 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
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**-transferase** enzyme for detoxifying xenobiotic compounds in  
plants and seeds, comprises a specific nucleotide sequence;  
for use in xenobiotic degradation  
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Refs: 172  
ISSN: 1464-7931 CODEN: BRCPAH  
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L111 ANSWER 4 OF 38 HCAPLUS COPYRIGHT 2006 ACS on STN  
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L111 ANSWER 5 OF 38 HCAPLUS COPYRIGHT 2006 ACS on STN  
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L111 ANSWER 6 OF 38 HCAPLUS COPYRIGHT 2006 ACS on STN  
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L111 ANSWER 8 OF 38 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights reserved on STN DUPLICATE 3  
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L111 ANSWER 9 OF 38 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN  
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L111 ANSWER 10 OF 38 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on  
 STN DUPLICATE 4  
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 transferase** gene - provides inducible gene expression in plants,  
 especially with **herbicide** safeners as inducer.  
 PI WO 9711189 A2 19970327 (199718)\* EN 49 C12N015-82  
 RW: AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD  
 SE SZ UG  
 W: AL AM AT AU AZ BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU  
 IL IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ  
 PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN  
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 R: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE  
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 HU 9901094 A2 19990728 (199936) C12N015-82  
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TI Soluble overexpression in Escherichia coli, and purification and  
characterization of wild-type recombinant tobacco acetolactate synthase  
AU Chang S.-I.; Kang M.-K.; Choi J.-D.; Namgoong S.K.  
CS S.-I. Chang, Department of Biochemistry, Chungbuk National University,  
Cheongju 361-763, South Korea.  
E-mail: sichang@cbucc.chungbuk.ac.kr  
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(549-553), 35 reference(s)  
CODEN: BBRCA0 ISSN: 0006-291X  
DT Journal; Article  
CY United States  
LA English  
SL English

L111 ANSWER 16 OF 38 HCAPLUS COPYRIGHT 2006 ACS on STN  
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STN DUPLICATE 6  
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STN DUPLICATE 7  
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L111 ANSWER 21 OF 38 MEDLINE on STN DUPLICATE 8  
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tolerance to **herbicides** that target acetolactate synthase.  
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L111 ANSWER 22 OF 38 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on  
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TRANSFERASE**  
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L111 ANSWER 24 OF 38 LIFESCI COPYRIGHT 2006 CSA on STN DUPLICATE 9  
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L111 ANSWER 25 OF 38 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
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metabolism of glutathione conjugates by rhizosphere bacteria;  
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dinitrobenzene substrate, for application in alachlor pesticide  
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**GLUTATHIONE S-TRANSFERASES (GST-I  
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L111 ANSWER 27 OF 38 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on

STN  
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 STN DUPLICATE 10  
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 RESISTANCE IN SETARIA SPP  
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 [Reprint author]  
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L111 ANSWER 30 OF 38 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on  
 STN DUPLICATE 11  
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L111 ANSWER 31 OF 38 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on  
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 TI DIALATE, TRIALLATE, AND SULFALLATE **HERBICIDES** - IDENTIFICATION  
 OF THIOCARBAMATE SULFOXIDES, CHLOROACROLEINS, AND CHLOROALLYLTHIOLS AS  
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L111 ANSWER 34 OF 38 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
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L111 ANSWER 35 OF 38 HCAPLUS COPYRIGHT 2006 ACS on STN  
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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	JP 2511036	B2	19960626		
	CH 689454	A	19990430	CH 1987-1874	19870515
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	FI 8702178	A	19871120	FI 1987-2178	19870518
	NO 8702075	A	19871120	NO 1987-2075	19870518
	AU 8773146	A1	19871126	AU 1987-73146	19870518
	AU 610825	B2	19910530		
	ZA 8703538	A	19880127	ZA 1987-3538	19870518
	HU 44075	A2	19880128	HU 1987-2208	19870518
	HU 210505	B	19950428		
	EP 256223	A1	19880224	EP 1987-107137	19870518
	R: AT, BE, DE, ES, FR, GB, GR, IT, LU, NL, SE				
	DD 273855	A5	19891129	DD 1987-302873	19870518
	DD 279269	A5	19900530	DD 1987-326337	19870518
	IL 82557	A1	19930221	IL 1987-82557	19870518
	BR 8702542	A	19880223	BR 1987-2542	19870519
	CN 87104489	A	19880504	CN 1987-104489	19870519
	CN 1024021	B	19940316		
	CA 1339629	A1	19980113	CA 1987-537339	19870519
	US 5073677	A	19911217	US 1989-391632	19890804

L111 ANSWER 36 OF 38 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
TI **Herbicide** tolerant plants - obtd. by recombinant DNA methods,  
and comprise genetic sequence coding for **glutathione S**  
**-transferase** gene.

PI	AU 8773146	A	19871126	(198803)*	75
	NO 8702075	A	19871214	(198804)	
	JP 62296882	A	19871224	(198806)	
	DK 8702506	A	19871120	(198808)	
	EP 256223	A	19880224	(198808)	GE
	R: AT BE DE ES FR GB GR IT LU NL SE				
	ZA 8703538	A	19871119	(198809)	
	FI 8702178	A	19871120	(198810)	
	HU 44075	T	19880128	(198810)	
	BR 8702542	A	19880223	(198813)	
	PT 84888	A	19880527	(198826)	
	CN 87104489	A	19880504	(198924)	
	DD 273855	A	19891129	(199019)	
	DD 279269	A	19900530	(199044)	
	IL 82557	A	19930221	(199314)	C12N015-54
	HU 210505	B	19950428	(199523)	C12N015-05
	CN 1024021	C	19940316	(199525)	C12N015-54

JP 2511036	B2 19960626 (199630)	32	C12N015-09
CA 1339629	C 19980113 (199816)		C12N005-10
CH 689454	A5 19990430 (199922)		C12N015-63

IN CHILTON, M D; DUESING, J; HELMER, G; LAI, H C J; ROTHSTEIN, S; SCARAFIA, L; TU, C P D; CHILTON, M; LAI, H J; TU, C D; HERMER, J; LAI, H; TU, C

L111 ANSWER 37 OF 38 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
DUPLICATE 14

TI EFFECTS OF S ETHYL-N N-DIPROPYLTHIOCARBAMATE EPTC ON NORMAL AND DWARF SEEDLINGS OF ZEA-MAYS L.

SO Biochemie und Physiologie der Pflanzen (BPP), (1987) Vol. 182, No. 3, pp. 257-260.  
CODEN: BPPFA4. ISSN: 0015-3796.

AU KOMIVES T [Reprint author]; HULESCH A; KOMIVES A V; DUTKA F

AN 1987:424997 BIOSIS

L111 ANSWER 38 OF 38 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
DUPLICATE 15

TI IMMUNOFLUORESCENCE LOCALIZATION OF CONJUGATED ATRAZINE IN LEAF PIECES OF CORN ZEA-MAYS.

SO Zeitschrift fuer Pflanzenkrankheiten und Pflanzenschutz, (1986) Vol. 93, No. 6, pp. 608-613.  
CODEN: ZPFPAA. ISSN: 0340-8159.

AU HUBER S J [Reprint author]; SAUTTER C

AN 1987:193347 BIOSIS

=> d ab 2-4

L111 ANSWER 2 OF 38 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

AB An isolated nucleic acid fragment (I) encoding a maize (Zea mays) glutathione-transferase (**GST**, EC-2.5.1.18) is claimed. Also claimed are: a chimeric gene comprising (I) operably linked to suitable regulatory sequences; a transformed host cell; altering the level of expression of **GST** in a host cell by transforming the host cell; and obtaining a nucleic acid fragment encoding all or a substantial portion of an amino acid sequence encoding a **GST** enzyme by probing a cDNA or genomic library with a nucleic acid fragment. (I) is useful for producing a **GST** enzyme which is used for detoxifying xenobiotic compounds in plants and seeds and as targets to facilitate design and/or identification of inhibitors of the enzymes that may be useful as **herbicides** or **herbicide** synergists. (I) is useful as a DNA probe for genetically and physically mapping the genes that they are part of, and as markers for traits linked to the expression of the instant enzymes. Such information is useful in plant breeding in order to develop lines with a desired phenotypes or in the identification of **mutants**. (I) is also useful as restriction fragment length polymorphism markers. (62pp)

L111 ANSWER 3 OF 38 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights reserved on STN

AB Some six or so physiological systems, essential to normal mammalian life, are involved in poisoning; an intoxication that causes severe injury to any one of them could be life threatening. Reversible chemical reactions showing Scatchard-type binding are exemplified by CO, CN- and cyclodiene neurotoxin insecticide intoxications, and by antigen-antibody complex formation. Haemoglobin (Hb) molecular biology accounts for the allosteric co-operativity and other characteristics of CO poisoning, CN- acts as a powerful cytochrome oxidase inhibitor, and antigen binding in a deep antibody cleft between two domains equipped with epitopes for antigen-binding groups explains hapten-specific immune reactions. Covalent chemical reactions with second-order (S(N)2) kinetics characterize Hg and Cd poisonings, the reactions of organophosphates and phosphonates with acetylcholinesterase and neurotoxic esterase and the

reaction sequence whereby Paraquat accepts electrons and generates superoxide under aerobic conditions. Indirect carcinogens require cytochrome P450 activation to form DNA adducts in target-organ DNA and cause cancer, but a battery of detoxifying enzymes clustered with the P450 system must be overcome. Thus, S-metabolism competes ineffectively with target DNA for reactive vinyl chloride (VC) metabolites, epoxide hydrolase is important to the metabolism and carcinogenicity of aflatoxins and polycyclic aromatic hydrocarbons (benzo[a]pyrene, etc.), and the non-toxic 2-naphthylhydroxylamine N-glucuronide acts as a transport form in 2-naphthylamine bladder cancer. VC liver-cancer pathogenesis is explicable in terms of the presence of the **glutathione S-transferase** detoxifying system in hepatocytes and its absence from the fibroblastic elements, and of the VC concentrations reaching the liver by different administrative routes. In VC carcinogenicity, chemical reactions give imidazo-cyclization products with nucleoside residues of target DNA, and in benzene leukaemia, Z,Z-muconaldehyde forms cyclic products containing a pyrrole residue linked to purine. Increased HbCO concentrations reduce the O<sub>2</sub>-carrying capacity of the blood, and the changed shape of the O<sub>2</sub>-Hb dissociation curve parallels disturbance in O<sub>2</sub> unloading. CN<sup>-</sup> acts on electron transport and paralyzes respiration. In telodrin poisoning, preconvulsive glutamine formation abstracts tricarboxylic acid intermediates incommensurately with normal cerebral respiration. Antigen-antibody complexing depletes the antibody titre, available against infection. At high doses of Cd, Cd-thionein filtered through the kidneys is reabsorbed and tubular lesions produced. Some organophosphate insecticides promote irreversible acetylcholinesterase phosphorylation and blockade nerve function, and others react with neurotoxic esterase to cause delayed neuropathy. The evidence for Paraquat pulmonary poisoning suggests a radical mechanism involving three interrelated cyclic reaction stages. The action of N- and O<sub>6</sub> (O substituent in 6-position of the purine) demethylases explains deletion mechanisms for DNA-alkyl adducts. DNA-directed synthesis in the presence of ultimate carcinogens provides for an estimation of misincorporations, which implicate the same transversions as those found by direct **mutagenicity** testing. Chemical carcinogens recognize tissue-sensitive cells and **modify** their heritable genetic complement. Oncoproteins encoded by activated oncogenes signal the transformation of normal cells into cancer cells. The importance of the H-ras oncogene and p53 tumour-suppressor gene is stressed. Antidotal action is analysed; for example, parenteral glutamine administration to telodrin-intoxicated rats restores the depleted cerebral glutamate level and prevents seizures. Glutamate acts as anticonvulsant in petit mal epilepsy. In general, therefore, the reaction of the toxicant-related substance with the relevant target-tissue macromolecule accounts for the biochemical/biological events at a cellular level and also the symptoms in the living mammal. This mechanism is analogous to mechanisms for diseases such as arthritis and Parkinsonism.

L111 ANSWER 4 OF 38 HCAPLUS COPYRIGHT 2006 ACS on STN

AB A review. Mechanisms that impart **herbicide** resistance to weeds and those conferring resistance on genetically **modified** crops are discussed. Resistance based on target site **modification** is characterized. The photosystem II D1 protein, photosystem I electron acceptor, protoporphyrinogen oxidase, acetolactate synthase, 5-enol-pyruvylshikimate-3-phosphate synthase, glutamine synthetase, acetyl-CoA carboxylase,  $\alpha$ - and  $\beta$ -tubulin, auxin-binding protein, and p-hydroxyphenylpyruvate dioxygenase are considered. Resistance due to increased **herbicide** metabolism is reviewed. Glyphosate oxidoreductase, phosphinothricin acetyltransferase, nitrilase, 2,4-D dioxygenase, cytochrome P 450 monooxygenases, aryl acylamidase, **glutathione-S-transferases**, uridine diphosphate glycosyltransferases, **herbicide** conjugate transporters, and resistance due to lack of **herbicide** activation are included.

=> s 112 and (soy or glycine max)

FILE 'MEDLINE'

6879 SOY  
43911 GLYCINE  
19617 MAX  
1467 GLYCINE MAX  
(GLYCINE(W)MAX)

L112 24 L1 AND (SOY OR GLYCINE MAX)

FILE 'SCISEARCH'

10760 SOY  
43107 GLYCINE  
67476 MAX  
9046 GLYCINE MAX  
(GLYCINE(W)MAX)

L113 51 L2 AND (SOY OR GLYCINE MAX)

FILE 'LIFESCI'

1992 SOY  
16761 "GLYCINE"  
17521 "MAX"  
5390 GLYCINE MAX  
("GLYCINE" (W) "MAX")

L114 13 L3 AND (SOY OR GLYCINE MAX)

FILE 'BIOTECHDS'

968 SOY  
6560 GLYCINE  
3917 MAX  
3278 GLYCINE MAX  
(GLYCINE(W)MAX)

L115 10 L4 AND (SOY OR GLYCINE MAX)

FILE 'BIOSIS'

15720 SOY  
68269 GLYCINE  
45252 MAX  
21054 GLYCINE MAX  
(GLYCINE(W)MAX)

L116 56 L5 AND (SOY OR GLYCINE MAX)

FILE 'EMBASE'

4902 SOY  
40471 "GLYCINE"  
54246 "MAX"  
914 GLYCINE MAX  
("GLYCINE" (W) "MAX")

L117 16 L6 AND (SOY OR GLYCINE MAX)

FILE 'HCAPLUS'

19925 SOY  
144957 GLYCINE  
836022 MAX  
21493 GLYCINE MAX  
(GLYCINE(W)MAX)

L118 90 L7 AND (SOY OR GLYCINE MAX)

FILE 'NTIS'

239 SOY  
702 GLYCINE  
2520 MAX  
80 GLYCINE MAX



```

                (GLYCINE(W)MAX)
L119            0 L8 AND (SOY OR GLYCINE MAX)

FILE 'ESBIOBASE'
    2959 SOY
    17182 GLYCINE
    17585 MAX
    4730 GLYCINE MAX
        (GLYCINE(W)MAX)
L120            32 L9 AND (SOY OR GLYCINE MAX)

FILE 'BIOTECHNO'
    1310 SOY
    13489 GLYCINE
    11604 MAX
    1563 GLYCINE MAX
        (GLYCINE(W)MAX)
L121            14 L10 AND (SOY OR GLYCINE MAX)

FILE 'WPIDS'
    17414 SOY
    12200 GLYCINE
    96596 MAX
    381 GLYCINE MAX
        (GLYCINE(W)MAX)
L122            9 L11 AND (SOY OR GLYCINE MAX)

TOTAL FOR ALL FILES
L123            315 L12 AND (SOY OR GLYCINE MAX)

=> s l123 not 2001-2006/py
FILE 'MEDLINE'
    2840381 2001-2006/PY
L124            9 L112 NOT 2001-2006/PY

FILE 'SCISEARCH'
    5309377 2001-2006/PY
        (20010000-20069999/PY)
L125            24 L113 NOT 2001-2006/PY

FILE 'LIFESCI'
    513727 2001-2006/PY
L126            8 L114 NOT 2001-2006/PY

FILE 'BIOTECHDS'
    119025 2001-2006/PY
L127            6 L115 NOT 2001-2006/PY

FILE 'BIOSIS'
    2619206 2001-2006/PY
L128            30 L116 NOT 2001-2006/PY

FILE 'EMBASE'
    2434217 2001-2006/PY
L129            6 L117 NOT 2001-2006/PY

FILE 'HCAPLUS'
    5338778 2001-2006/PY
L130            34 L118 NOT 2001-2006/PY

FILE 'NTIS'
    79627 2001-2006/PY
L131            0 L119 NOT 2001-2006/PY

```

FILE 'ESBIOBASE'  
1488707 2001-2006/PY  
L132 18 L120 NOT 2001-2006/PY

FILE 'BIOTECHNO'  
368875 2001-2006/PY  
L133 12 L121 NOT 2001-2006/PY

FILE 'WPIDS'  
4680242 2001-2006/PY  
L134 1 L122 NOT 2001-2006/PY

TOTAL FOR ALL FILES  
L135 148 L123 NOT 2001-2006/PY

=> dup rem l135  
PROCESSING COMPLETED FOR L135  
L136 54 DUP REM L135 (94 DUPLICATES REMOVED)

=> d 1-20

L136 ANSWER 1 OF 54 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
TI Soybean glutathione-transferase proteins and polynucleotides used to  
produce herbicide tolerant transgenic plants and to screen for inhibitors  
or substrates of the enzyme;  
involving vector-mediated chimeric gene transfer for expression in  
plant or Escherichia coli cell  
AU McGonigle B; O'Keefe D P  
AN 2000-14241 BIOTECHDS  
PI WO 2000047728 17 Aug 2000

L136 ANSWER 2 OF 54 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
TI Nucleic acids encoding soybean **glutathione-S-transferase** enzymes useful for conferring herbicide resistance to  
plants;  
constructing transgenic plant with altered level of  
glutathione-transferase enzyme  
AU McGonigle B; O'keefe D P  
AN 2000-09508 BIOTECHDS  
PI WO 2000018936 6 Apr 2000

L136 ANSWER 3 OF 54 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
TI New **glutathione-S-transferase** enzymes and  
isolated nucleic acid fragments encoding them, useful for detoxifying  
xenobiotic compounds in plants and seeds, as well as in producing  
transgenic plants that are herbicide resistant;  
transgenic plant construction with herbicide resistance  
AU McGonigle B; O'Keefe D P  
AN 2000-10380 BIOTECHDS  
PI US 6063570 16 May 2000

L136 ANSWER 4 OF 54 MEDLINE on STN DUPLICATE 1  
TI A genomics approach to the comprehensive analysis of the  
**glutathione S-transferase** gene family in  
soybean and maize.  
SO Plant physiology, (2000 Nov) 124 (3) 1105-20.  
Journal code: 0401224. ISSN: 0032-0889.  
AU McGonigle B; Keeler S J; Lau S M; Koeppe M K; O'Keefe D P  
AN 2001210879 MEDLINE

L136 ANSWER 5 OF 54 LIFESCI COPYRIGHT 2006 CSA on STN  
TI A Genomics Approach to the Comprehensive Analysis of the  
**Glutathione S-Transferase** Gene Family in  
Soybean and Maize

SO Plant Physiology [Plant Physiol.], (20001100) vol. 124, no. 3, pp.  
1007-1018.  
ISSN: 0032-0889.

AU McGonigle, B.; Keeler, S.J.; Lau, S.C.; Koeppe, M.K.; O'Keefe, D.P.\*  
AN 2001:27534 LIFESCI

L136 ANSWER 6 OF 54 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI Enhancement of phase II and antioxidant enzymes in mice by soybeans  
fermented with basidiomycetes  
SO Journal of Microbiology and Biotechnology (2000), 10(6), 851-857  
CODEN: JOMBES; ISSN: 1017-7825  
AU Shon, Yun-Hee; Kim, So-Yeun; Lee, Jae-Sung; Nam, Kyung-Soo  
AN 2001:70326 HCAPLUS  
DN 134:236828

L136 ANSWER 7 OF 54 MEDLINE on STN DUPLICATE 2  
TI Vitamin E regulates changes in tissue antioxidants induced by fish oil and  
acute exercise.  
SO Medicine and science in sports and exercise, (2000 Mar) 32 (3) 601-7.  
Journal code: 8005433. ISSN: 0195-9131.  
AU Atalay M; Laaksonen D E; Khanna S; Kaliste-Korhonen E; Hanninen O; Sen C K  
AN 2000193267 MEDLINE

L136 ANSWER 8 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
TI Developmental expression of **GST** activities in female  
Sprague-Dawley rats fed **soy** protein isolate-, whey protein- or  
casein-based diets.  
SO Proceedings of the American Association for Cancer Research Annual  
Meeting, (March, 2000) No. 41, pp. 443. print.  
Meeting Info.: 91st Annual Meeting of the American Association for Cancer  
Research. San Francisco, California, USA. April 01-05, 2000.  
ISSN: 0197-016X.  
AU Rowlands, J. Craig [Reprint author]; Ronis, Martin J. J. [Reprint author];  
Hakkak, Rezza [Reprint author]; Badger, Thomas M. [Reprint author]  
AN 2000:221749 BIOSIS

L136 ANSWER 9 OF 54 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI Two soybean glutathione transferases exhibit substrate and thiol  
specificity  
SO Clinical Chemistry and Enzymology Communications (2000), 8(4-6), 389-392  
CODEN: CCECEY; ISSN: 0892-2187  
AU Skipsey, Mark; Andrews, Christopher J.; Townson, Jane K.; Jepson, Ian;  
Edwards, Robert  
AN 2000:257174 HCAPLUS  
DN 133:85946

L136 ANSWER 10 OF 54 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on  
STN DUPLICATE 3  
TI Cloning and characterization of glyoxalase I from soybean  
SO ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, (15 FEB 2000) Vol. 374, No. 2,  
pp. 261-268.  
ISSN: 0003-9861.  
AU Skipsey M; Andrews C J; Townson J K; Jepson I; Edwards R (Reprint)  
AN 2000:143640 SCISEARCH

L136 ANSWER 11 OF 54 MEDLINE on STN DUPLICATE 4  
TI Two expressed soybean genes with high sequence identity to tomato Ptil  
kinase lack autophosphorylation activity.  
SO Archives of biochemistry and biophysics, (2000 Nov 15) 383 (2) 233-7.  
Journal code: 0372430. ISSN: 0003-9861.  
AU Staswick P  
AN 2001128084 MEDLINE

L136 ANSWER 12 OF 54 MEDLINE on STN DUPLICATE 5

TI **Soy** induces phase II enzymes but does not inhibit  
 dimethylbenz[a]anthracene-induced carcinogenesis in female rats.  
 SO Journal of nutrition, (1999 Oct) 129 (10) 1820-6.  
 Journal code: 0404243. ISSN: 0022-3166.  
 AU Appelt L C; Reicks M M  
 AN 1999429911 MEDLINE

L136 ANSWER 13 OF 54 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on  
 STN DUPLICATE 6  
 TI Early events in the signal pathway for the oxidative burst in soybean  
 cells exposed to avirulent *Pseudomonas syringae* pv *glycinea*  
 SO PLANT PHYSIOLOGY, (AUG 1999) Vol. 120, No. 4, pp. 1137-1146.  
 ISSN: 0032-0889.  
 AU Rajasekhar V K (Reprint); Lamb C; Dixon R A  
 AN 1999:640037 SCISEARCH

L136 ANSWER 14 OF 54 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on  
 STN DUPLICATE 7  
 TI Differential gene expression in plants stressed by the peroxidizing  
 herbicide oxyfluorfen  
 SO ZEITSCHRIFT FUR NATURFORSCHUNG C-A JOURNAL OF BIOSCIENCES, (SEP-OCT 1999)  
 Vol. 54, No. 9-10, pp. 764-770.  
 ISSN: 0939-5075.  
 AU Lederer B; Knorzer O C; Boger P (Reprint)  
 AN 1999:812364 SCISEARCH

L136 ANSWER 15 OF 54 HCAPLUS COPYRIGHT 2006 ACS on STN  
 TI The involvement of cysteine proteases and protease inhibitor genes in the  
 regulation of programmed cell death in plants  
 SO Plant Cell (1999), 11(3), 431-443  
 CODEN: PLCEEW; ISSN: 1040-4651  
 AU Solomon, Mazal; Belenghi, Beatrice; Delledonne, Massimo; Menachem, Ester;  
 Levine, Alex  
 AN 1999:233219 HCAPLUS  
 DN 131:29895

L136 ANSWER 16 OF 54 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights  
 reserved on STN DUPLICATE 8  
 TI Two soybean glutathione transferases exhibit substrate and thiol  
 specificity.  
 SO Clinical Chemistry and Enzymology Communications, (1999) Vol. 8, No. 4-6,  
 pp. 389-392.  
 Refs: 3  
 ISSN: 0892-2187 CODEN: CCECEY  
 AU Skipsey M.; Andrews C.J.; Townson J.K.; Jepson I.; Edwards R.  
 AN 2000126082 EMBASE

L136 ANSWER 17 OF 54 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on  
 STN DUPLICATE 9  
 TI Antioxidative defense activation in soybean cells  
 SO PHYSIOLOGIA PLANTARUM, (NOV 1999) Vol. 107, No. 3, pp. 294-302.  
 ISSN: 0031-9317.  
 AU Knorzer O C; Lederer B; Durner J; Boger P (Reprint)  
 AN 2000:82637 SCISEARCH

L136 ANSWER 18 OF 54 HCAPLUS COPYRIGHT 2006 ACS on STN  
 TI Expression of a novel ethylene-producing bifunctional fusion enzyme in  
 yeast  
 SO Botanical Bulletin of Academia Sinica (1999), 40(2), 107-114  
 CODEN: BBASA6; ISSN: 0006-8063  
 AU Lu, Bing Wen; Yu, Bing; Li, Ning  
 AN 1999:336512 HCAPLUS  
 DN 131:154150

L136 ANSWER 19 OF 54 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
 TI Heterologous expression systems to study **glutathione-S**  
**-transferases** involved in herbicide metabolism;  
 glutathione-transferase expression in transgenic plant, bacterium and  
 application in herbicide pesticide degradation (conference abstract)  
 SO Abstr.Pap.Am.Chem.Soc.; (1999) 218 Meet., Pt.1, AGRO176  
 CODEN: ACSRAL ISSN: 0065-7727  
 218th ACS National Meeting, American Chemical Society, New Orleans, LA,  
 USA, 22-26 August, 1999.  
 AU Andrews C J; Jepsen I; Skipsey M; Townson J K; Edwards R  
 AN 2000-02087 BIOTECHDS

L136 ANSWER 20 OF 54 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 10

TI Processed soybean foods

SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

IN Kanke, Yusuke; Iwama, Akihiko; Iwasaki, Masae; Kaneko, Senri

AN 1998:586018 HCAPLUS

DN 129:202278

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10234326	A2	19980908	JP 1997-41788	19970226

PI JP 10234326 A2 19980908 JP 1997-41788 19970226

=> d ab 1-3,9

L136 ANSWER 1 OF 54 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

AB A nucleic acid (I) encoding a soybean (**Glycine max**)  
 glutathione-transferase (**GST**, EC-2.5.1.18) enzyme, comprising  
 one of 26 protein sequences containing 200-250 residues or a similar  
 sequence, or its complement, is claimed. Also claimed are a protein  
 encoded by (I); a chimeric gene comprising (I) linked to regulatory  
 sequences; a plant or Escherichia coli host cell transformed with the  
 gene; altering the level of soybean **GST** expression in a host  
 involving transformation; obtaining a nucleic acid fragment encoding at  
 least a substantial portion of the amino acid sequence encoding a soybean  
**GST**; identifying a chemical compound that inhibits soybean  
**GST** activity or a **GST** substrate; and identifying a  
 chemical compound inhibiting soybean **GST** activity or a  
**GST** substrate. Its use is for the production of  
 herbicide-tolerant transgenic plants and for the development of screening  
 assays to identify **GST** inhibitors and substrates, which can be  
 used as herbicide synergists. The recombinant **GST** enzymes can  
 be used to produce enzyme specific antibodies which are used to detect  
 the enzymes in situ in cells or in cell extracts.

L136 ANSWER 2 OF 54 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

AB New nucleic acids (I) encoding soybean (**Glycine max**)  
 glutathione-transferase (EC-2.5.1.18) (**GST**) enzymes (II) are  
 claimed. Also claimed are: a nucleic acid fragment (I) encoding a  
 soybean **GST**, selected from an isolated nucleic acid fragment  
 encoding all or part of one of 14 defined amino acid sequences; a protein  
 (II) encoded by (I); a chimeric gene (III) containing (I) linked to  
 suitable regulatory sequences; a transformed host cell (Escherichia coli)  
 containing (III); a method (METH1) of altering the level of expression of  
 soybean **GST** enzymes in a host cell; a method (METH2) of  
 obtaining a nucleic acid fragment encoding all or part of a soybean  
**GST** enzyme which involves synthesizing the primer and amplifying  
 cDNA; the product of METH2; a method (METH3) for identifying a chemical  
 compound that inhibits the activity of soybean **GST**; a method  
 (METH4) (in the presence of thiol donor) of identifying a substrate for a  
**GST** enzyme encoded by (I). **GST** enzyme catalyzes the  
 conjugation of glutathione, homoglutathione and other glutathione-like  
 analogs. They are involved in the detoxification of these compounds and

also in the development of herbicide resistance in plants. (70pp)

L136 ANSWER 3 OF 54 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
AB An isolated nucleic acid fragment (I) encoding glutathione-transferase (**GST**, EC-2.5.1.18), is claimed. Also claimed are: a chimeric gene comprising (I) operably linked to suitable regulatory sequences; a transformed host cell comprising a host cell and the chimeric gene; a method of altering the level of expression of a **GST** enzyme in a host cell involving transformation; and methods of obtaining a nucleic acid fragment encoding the **GST** by hybridizing or primer-directed amplification. (I) is useful in the construction of herbicide-tolerant transgenic plants, plants that are tolerant to a wide variety of stresses, or plants in which the **GST** enzymes are present at higher or lower levels than they are normally. The nucleic acid fragments are also useful as probes for genetically and physically mapping the genes that they are part of, and as markers for traits linked to expression of the enzymes. This will be useful in plant breeding in order to develop lines with desired phenotypes or in the identification of mutants. Methods of transgenic plant construction have altered levels of **GST** enzymes and screens for identifying soybean (**Glycine max**) **GST** enzyme substrates. (36pp)

L136 ANSWER 9 OF 54 HCAPLUS COPYRIGHT 2006 ACS on STN  
AB Soybean (**Glycine max** L.) contains homogluthathione (hGSH) as the predominant free thiol, rather than glutathione (GSH). Two cDNAs encoding glutathione transferases from soybean have been isolated and subsequently over-expressed in Escherichia coli. Both recombinant enzymes were active as dimers (GmGST1-1, GmGST2-2) and showed **GST** and glutathione peroxidase activity toward diverse xenobiotics, including analogs of natural stress metabolites. GSH was the preferred thiol for conjugation by gmGST1-1 to most xenobiotics with the exception of selected di-Ph ether herbicides, where hGSH was preferred. GmGST2-2 also displayed thiol preference with respect to its xenobiotic conjugating activities. These results suggest that at least two soybean GSTs demonstrate thiol specificity as well as substrate-dependent specificity.

=> d ab 14,17

L136 ANSWER 14 OF 54 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN  
DUPLICATE 7  
AB The response of plants to the peroxidizing herbicide oxyfluorfen was investigated. The action of this p-nitrodiphenyl ether is based on inhibition of plastidic protoporphyrinogen oxidase, which leads to accumulation of protoporphyrin IX in the cytosol yielding reactive oxygen species by light activation. The induction of activities of antioxidative enzymes was followed in Nicotiana tabacum plants, var. BelW3. Glutathione reductase activity was elevated by 75% compared to control, monodehydroascorbate reductase by 65% and **glutathione S-transferase** by 110%. The mRNA of ascorbate peroxidase and catalase isoform 2 was induced, the catalase isoform 1 was reduced. These findings were confirmed and supported by measuring enzymatic activity changes in photoheterotrophically grown soybean (**Glycine max**) suspension cultures. To find a possible involvement of compounds regulating oxidative stress response, we investigated the influence of salicylic acid and BTH (benzo(1,2,3)thiadiazole-7-carbothioic acid S-methylester), both inducers of pathogen defense, on soybean cell suspension cultures. The specific activities of glutathione reductase, monodehydroascorbate reductase and **glutathione S-transferase** increased strongly, comparable to oxyfluorfen treatment. Both compounds protected the cells against oxyfluorfen-induced lipid peroxidation and alleviated the accumulation of protoporphyrin IX.

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DUPLICATE 9

AB Suspension-cultured, photoheterotrophically grown, green soybean cells (**Glycine max** L,) were used to investigate alterations in the cellular contents of ascorbate and glutathione, as well as specific activities of antioxidative enzymes, elicited by salicylic acid (SA) and BTH [benzo(1,2,3) thiadiazole-7-carbothioic acid S-methylester]. Both antioxidants were positively regulated by 48-h incubations with SA and BTH, respectively; the latter induced a stronger increase in antioxidant levels compared to SA. The specific activities of glutathione reductase, monodehydroascorbate reductase and **glutathione S-transferase** increased strongly in soybean cells as a response to both SA and BTH. The enzyme activations observed were in the range of 2-8-fold, Catalase activity was also increased 2-fold by SA but decreased when cells were incubated with BTH. These results indicate an activation of the cellular antioxidative system at both the antioxidant and enzyme level. In addition, the effects of SA and BTH on phytotoxicity exerted by the peroxidizing herbicide oxyfluorfen were investigated. Both compounds protected soybean cells from herbicide-induced lipid peroxidation in a time- and concentration-dependent manner and strongly suppressed the herbicide-induced accumulation of protoporphyrin IX. SA as well as BTH antagonize the action of peroxidizing herbicides.

=&gt; fil .becpat

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

462.26

462.95

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-2.25

-2.25

FILES 'BIOTECHDS, HCAPLUS, WPIDS' ENTERED AT 09:16:05 ON 05 JAN 2006

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3 FILES IN THE FILE LIST

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35607 WO/PC

119010 PY&gt;=2001

(PY&gt;=2001)

24671 PRY&lt;=2000

(PRY&lt;=2000)

L137 3 (L28 OR L53 OR L90 OR L115) AND WO/PC AND PY&gt;=2001 AND PRY&lt;=2000

FILE 'HCAPLUS'

281792 WO/PC

5045258 PY&gt;=2001

635870 PRY&lt;=2000

L138 11 (L31 OR L56 OR L93 OR L118) AND WO/PC AND PY&gt;=2001 AND PRY&lt;=2000

FILE 'WPIDS'

554405 WO/PC

3815743 PY&gt;=2001

(PY&gt;=2001)

1472019 PRY&lt;=2000

(PRY&lt;=2000)

L139 5 (L35 OR L60 OR L97 OR L122) AND WO/PC AND PY&gt;=2001 AND PRY&lt;=2000

TOTAL FOR ALL FILES

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=&gt; dup rem 1140

PROCESSING COMPLETED FOR L140

L141 13 DUP REM L140 (6 DUPLICATES REMOVED)

=> d tot

L141 ANSWER 1 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 1

TI Use of genes for herbicidal triketone resistant 4-hydroxyphenyl pyruvate dioxygenases of monocotyledonous **plants** in dicotyledonous **plants**

SO PCT Int. Appl., 112 pp.

CODEN: PIXXD2

IN Warner, Simon Anthony James; Hawkes, Timothy Robert; Andrews, Christopher John

AN 2002:449847 HCAPLUS

DN 137:29441

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002046387	A2	20020613	WO 2001-GB5028	20011114 <--
WO 2002046387	A3	20030116		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2427787	AA	20020613	CA 2001-2427787	20011114 <--
AU 2002014158	A5	20020618	AU 2002-14158	20011114 <--
EP 1341903	A2	20030910	EP 2001-982616	20011114 <--
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
JP 2004528821	T2	20040924	JP 2002-548105	20011114 <--
US 2004058427	A1	20040325	US 2003-416940	20031003 <--

L141 ANSWER 2 OF 13 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

TI New nuclear export signal peptide, useful for treating diseases, e.g. inflammation, associated with nuclear export and in drug screening; Stat protein-1, green fluorescent protein or glutathione-transferase fusion protein gene transfer, antisense DNA and drug screening useful for gene therapy and diagnosis

AU VINKEMEIER U

AN 2002-09891 BIOTECHDS

PI WO 2002006309 24 Jan 2002

L141 ANSWER 3 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN

TI **Mutagenesis** of **plant** 5-enol pyruvyl shikimate phosphate synthetase for stable enzyme expression in transgenic **plant** for glyphosate resistant

SO PCT Int. Appl., 149 pp.

CODEN: PIXXD2

IN Warner, Simon Anthony James; Hawkes, Timothy Robert; Andrews, Christopher John

AN 2002:256481 HCAPLUS

DN 136:290008

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002026995	A1	20020404	WO 2001-GB4131	20010914 <--
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UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2001087862	A5	20020408	AU 2001-87862	20010914 <--
EP 1325136	A1	20030709	EP 2001-967487	20010914 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001014322	A	20040615	BR 2001-14322	20010914 <--
JP 2004528808	T2	20040924	JP 2002-530758	20010914 <--
CN 1541270	A	20041027	CN 2001-817399	20010914 <--
ZA 2003002168	A	20040216	ZA 2003-2168	20030318 <--
US 2003200560	A1	20031023	US 2003-380935	20030505 <--

L141 ANSWER 4 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN

TI BAG proteins of Arabidopsis thaliana and their use in delaying senescence  
 and improving disease and stress resistance in transgenic **plants**

SO PCT Int. Appl., 86 pp.

CODEN: PIXXD2

IN Dickman, Martin B.

AN 2002:220790 HCAPLUS

DN 136:229602

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2002022822	A2	20020321	WO 2001-US29169	20010914 <--
WO 2002022822	A3	20030807		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2002116734	A1	20020822	US 2001-946805	20010904 <--
AU 2001091081	A5	20020326	AU 2001-91081	20010914 <--

L141 ANSWER 5 OF 13 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

TI Producing transgenic plants with desirable phenotypes for growing plants  
 in salt-contaminated soil, involves transforming a plant with a  
 heterologous nucleotide sequence encoding calcium-binding protein;  
 vector-mediated calreticulin and reporter gene transfer, expression in  
 host cell and Agrobacterium sp. for transgenic plant construction and  
 improved salt tolerance, stress tolerance, disease-resistance,  
 senescence and nutrition and animal feedstuff manufacture

AU WYATT S; TSOU P; ROBERTSON D; BOSS W F

AN 2002-05783 BIOTECHDS

PI WO 2001083789 8 Nov 2001

L141 ANSWER 6 OF 13 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

TI Novel **glutathione-S-transferase** and  
 homoglutathione-synthetase sequences from soybean for producing plants  
 which are resistant and tolerant to **herbicide** comprising  
 fomesafen and/or acifluorfen;  
 involving vector plasmid pCR2.1-mediated gene transfer for expression  
 in Escherichia coli

AU Andrews C J; Jepson I; Townson J K; Edwards R; Cummins I; Skipsey M

AN 2001-09078 BIOTECHDS

PI WO 2001021770 29 Mar 2001

L141 ANSWER 7 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 4

TI Protein and cDNA sequences of three novel Papaver somniferum

**glutathione-S-transferases, and uses thereof**

SO PCT Int. Appl., 78 pp.  
CODEN: PIXXD2

IN Facchini, Peter James

AN 2001:545875 HCAPLUS

DN 135:133153

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001053501	A2	20010726	WO 2001-IB205	20010118 <--
	WO 2001053501	A3	20020307		
	W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM	
	RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG	

L141 ANSWER 8 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 5

TI Protein and cDNA sequences of a novel insecticidal and nematocidal protein from *Xerocomus chrysenteron*

SO PCT Int. Appl., 46 pp.  
CODEN: PIXXD2

IN Fournier, Didier; Paquereau, Laurent; Klæbe, Alain; Chavant, Louis

AN 2001:12634 HCAPLUS

DN 134:96262

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001000840	A1	20010104	WO 2000-GB2453	20000623 <--
	W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM	
	RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG	

L141 ANSWER 9 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Method of screening for negative cross resistance

SO PCT Int. Appl., 53 pp.  
CODEN: PIXXD2

IN Pittendrigh, Barry Robert; Murdock, Larry Lee; Gaffney, Patrick Joseph

AN 2001:886546 HCAPLUS

DN 136:17687

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001092561	A2	20011206	WO 2001-US18062	20010601 <--
	WO 2001092561	A3	20021003		
	W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM	
	RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG	
	CA 2410584	AA	20011206	CA 2001-2410584	20010601 <--
	EP 1287352	A2	20030305	EP 2001-941896	20010601 <--
	R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,	

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

L141 ANSWER 10 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Use of suicide genes under gamete-specific promoters to reduce or eliminate sexual transmission of a transgene

SO PCT Int. Appl., 81 pp.

CODEN: PIXXD2

IN Dellaporta, Stephen L.; Moreno, Maria A.

AN 2001:661636 HCAPLUS

DN 135:237578

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001064926	A2	20010907	WO 2001-US6249	20010228 <--
	WO 2001064926	A3	20020502		
	WO 2001064926	C1	20040212		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2401495	AA	20010907	CA 2001-2401495	20010228 <--
	US 2002144305	A1	20021003	US 2001-794384	20010228 <--
	US 6743968	B2	20040601		
	EP 1263977	A2	20021211	EP 2001-916262	20010228 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2004512007	T2	20040422	JP 2001-563615	20010228 <--
	BR 2001008716	A	20041207	BR 2001-8716	20010228 <--
	US 2004154054	A1	20040805	US 2004-801550	20040317 <--

L141 ANSWER 11 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Protein and cDNA sequences of a novel insecticidal endotoxin protein CRY from Paecilomyces farinosus

SO PCT Int. Appl., 72 pp.

CODEN: PIXXD2

IN Griffin, Jonathan; Carlile, Amanda Jane; Cayley, Patricia Jane; MacKay, Elaine Anne; Warner, Simon Anthony James; Vincent, Jason Leigh; Lee, Michael David

AN 2001:12635 HCAPLUS

DN 134:96263

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001000841	A1	20010104	WO 2000-GB2457	20000623 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
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	EP 1196585	A1	20020417	EP 2000-940623	20000623 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2003503060	T2	20030128	JP 2001-506833	20000623 <--
	AU 778616	B2	20041216	AU 2000-55534	20000623 <--

L141 ANSWER 12 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Soybean **glutathione-S-transferase** enzymes  
 and cDNAs and methods for identifying inhibitors and substrates  
 SO U.S., 49 pp., Cont.-in-part of U.S. Ser. No. 924,747.  
 CODEN: USXXAM  
 IN McGonigle, Brian; O'Keefe, Daniel P.  
 AN 2001:7567 HCAPLUS  
 DN 134:67168  
 PATENT NO. KIND DATE APPLICATION NO. DATE  
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 PI US 6168954 B1 20010102 US 1999-247373 19990210 <--  
 US 6063570 A 20000516 US 1997-924747 19970905  
 WO 2000047728 A2 20000817 WO 2000-US3347 20000210 <--  
 WO 2000047728 A3 20010125  
 RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,  
 PT, SE  
 EP 1151086 A2 20011107 EP 2000-911741 20000210 <--  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, FI

L141 ANSWER 13 OF 13 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
 TI Screening activity/expression inhibitor of target gene encoded protein by  
 co-culturing two cells, one of which expresses reporter gene, with test  
 molecule and measuring activity/amount of the gene encoded protein.  
 PI WO 2001040518 A1 20010607 (200143)\* EN 76 C12Q001-68 <--  
 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ  
 NL OA PT SD SE SL SZ TR TZ UG ZW  
 W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM  
 DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
 LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE  
 SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
 AU 2001019363 A 20010612 (200154) C12Q001-68 <--  
 EP 1235935 A1 20020904 (200266) EN C12Q001-68 <--  
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT  
 RO SE SI TR  
 US 6518035 B1 20030211 (200314) C12Q001-00 <--  
 JP 2003517308 W 20030527 (200344) 96 C12N015-09 <--  
 IN ASHBY, M; SHOEMAKER, D D

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FULL ESTIMATED COST	52.19	515.14
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-2.25

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